Installation & User Manual

Rotator Shut-Off – Switch Activated Models 6820937 and 6823703

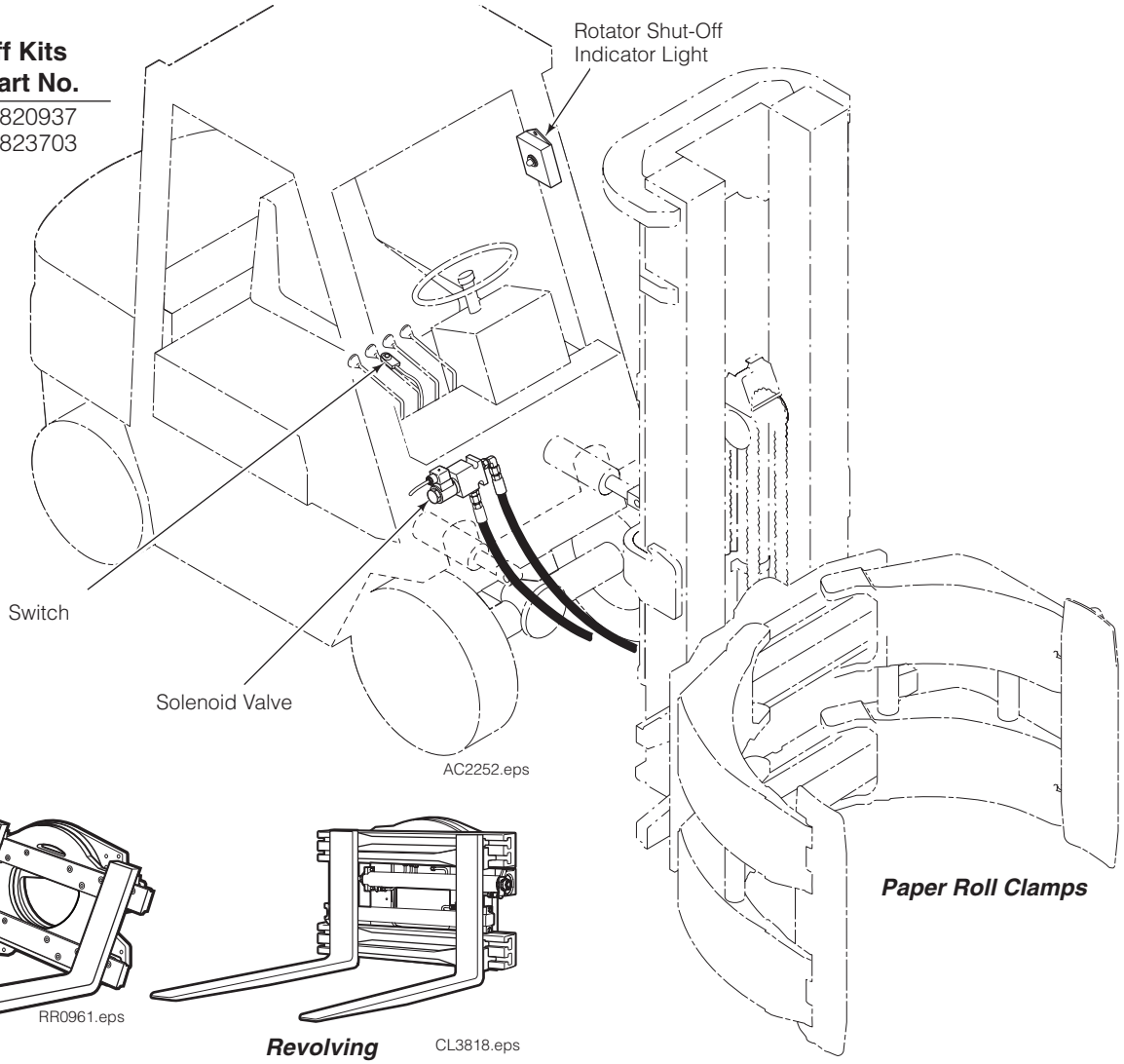
This manual provides installation instructions for Cascade Rotator Shut-Off. The kit provides an added level of security to prevent unintended load movement. Rotator Shut-Off requires a definitive action by the driver to help prevent accidental rotation. The kit is intended for use with all Cascade Rotating attachments in a method similar to ANSI/ITSDF B56.1, Section 7.25.7.

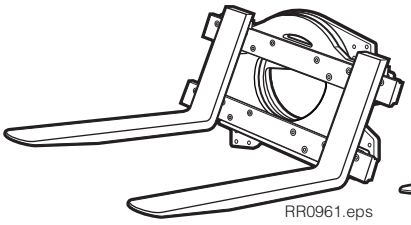
NOTE: Kits are UL Classified (File # AU3546) for safety in Electric Battery (UL 583) and IC Engine (UL 558) Indust. Truck type E, ES, G, GS,G/LP/ GS/LPS, LP, LPS, D and DS.

NOTE: UL Classified Kits require installation by qualified personnel only without major disturbance, cutting, splicing or soldering of factory installed wiring.

Rotator Shut-Off Kits

Voltage	Part No.
12V	6820937
24-48V	6823703




RR0961.eps

Rotators

CL3818.eps

Revolving Clamps

Part No. 6823802-R1

cascade® corporation

Cascade Corp.
File No. AU3546

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Write: Cascade Corporation, PO Box 20187, Portland, OR 97294

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Internet: www.cascorp.com
Write: Cascade Corporation, 2501 Sheridan Ave., Springfield, OH 45505

Installation

Perform by Qualified Personnel only.

1 Disconnect the cable from the negative battery terminal or as directed by OEM truck manual.

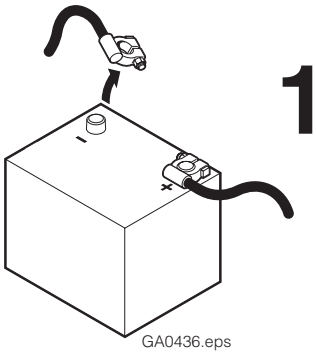
2 Locate and install the solenoid valve and spacer on the truck cowl using customer supplied .25 in. (6 mm) fasteners. Watch for clearance when the mast is tilt all the way back. The valve is being installed in the ROTATE line from the auxiliary valve to the attachment.

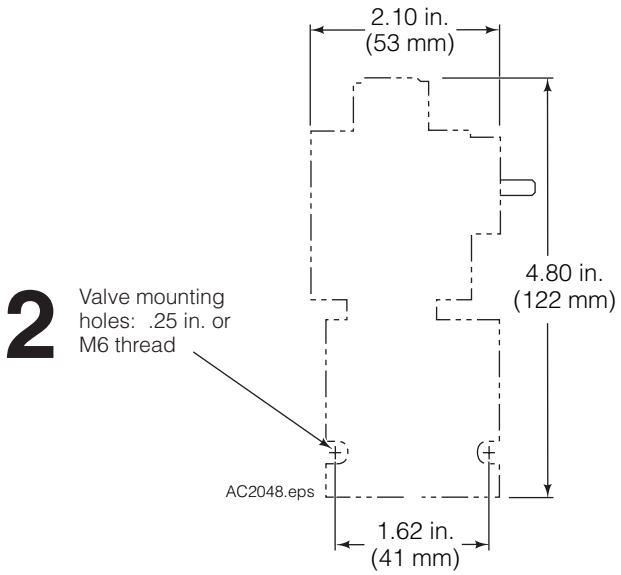
IMPORTANT: The valve must be installed in the ROTATE circuit.

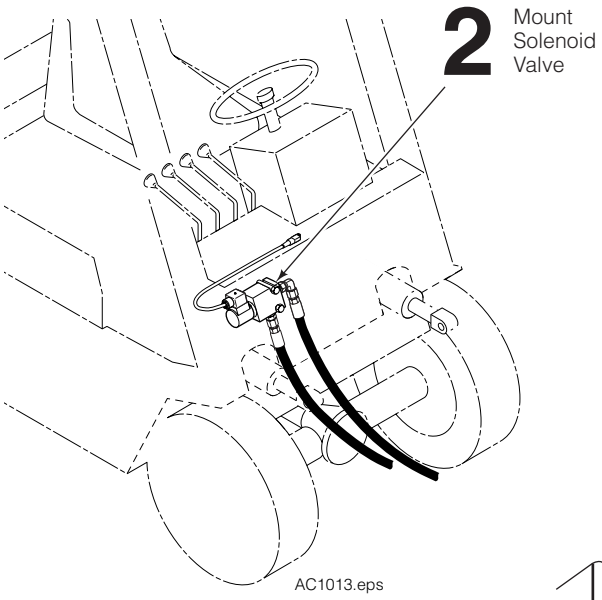
3 Connect control valve port 1 to the supply hose going to the attachment rotate drive valve.

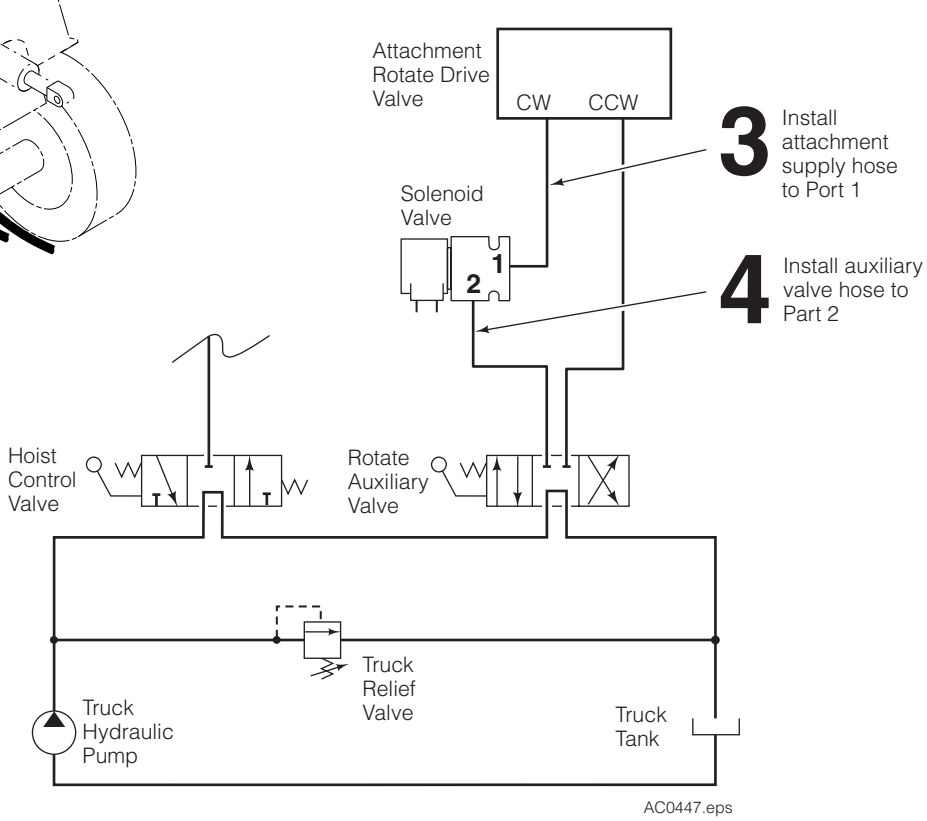
4 Connect solenoid valve port 2 to the supply hose from the truck auxiliary valve ROTATE line.

IMPORTANT: Verify by visual test, Installation steps 2, 3 and 4.









NOTE: UL Classified Kits require installation by qualified personnel only without major disturbance, cutting, splicing or soldering of factory installed wiring.

5 Install cab indicator light on the truck dashboard, overhead guard, or any other easy to see location using customer supplied hardware OR the Velcro strip provided. Clean the mounting surfaces prior to installing the Velcro.

6 Install the Pushbutton Switch Assembly to the ROTATE control lever. Refer to Installation Instructions 6822725, included with the switch, for complete installation procedure.

CAUTION: Consult the Lift Truck OEM for proper + power source connection.

7 Connect cable ends to the components as shown.

12V Systems – Connect the fused positive wire from the cable harness to a 12V switched power source, and the negative wire to a ground.

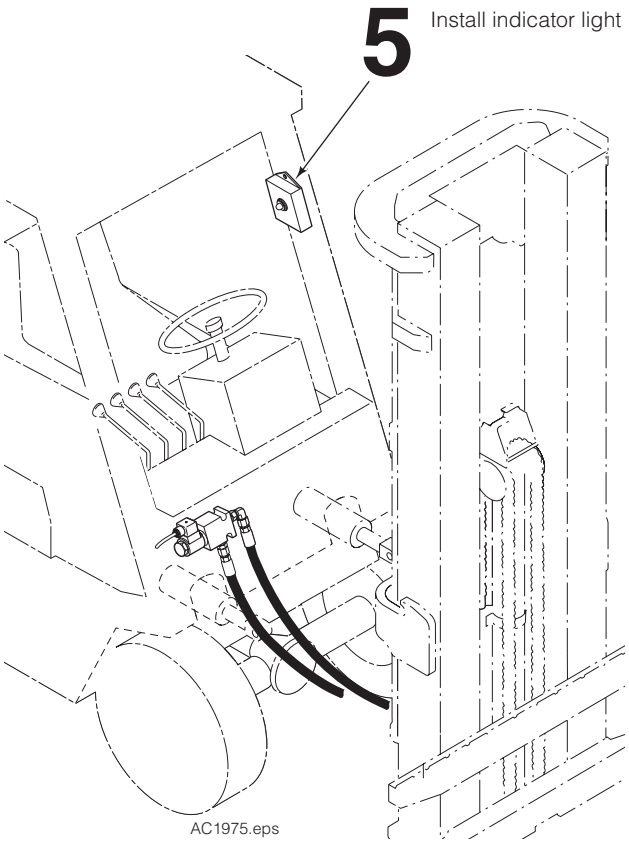
24V–48V Systems – Connect the power wire harness to a DC-to-DC Converter Kit Connector. Connect converter kit inputs to a 24V–48V switched power source.

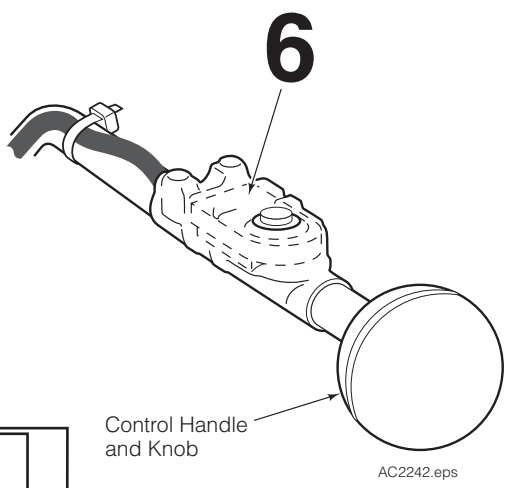
Check the cable routing for pinch points and clearance. Use wire ties as needed.

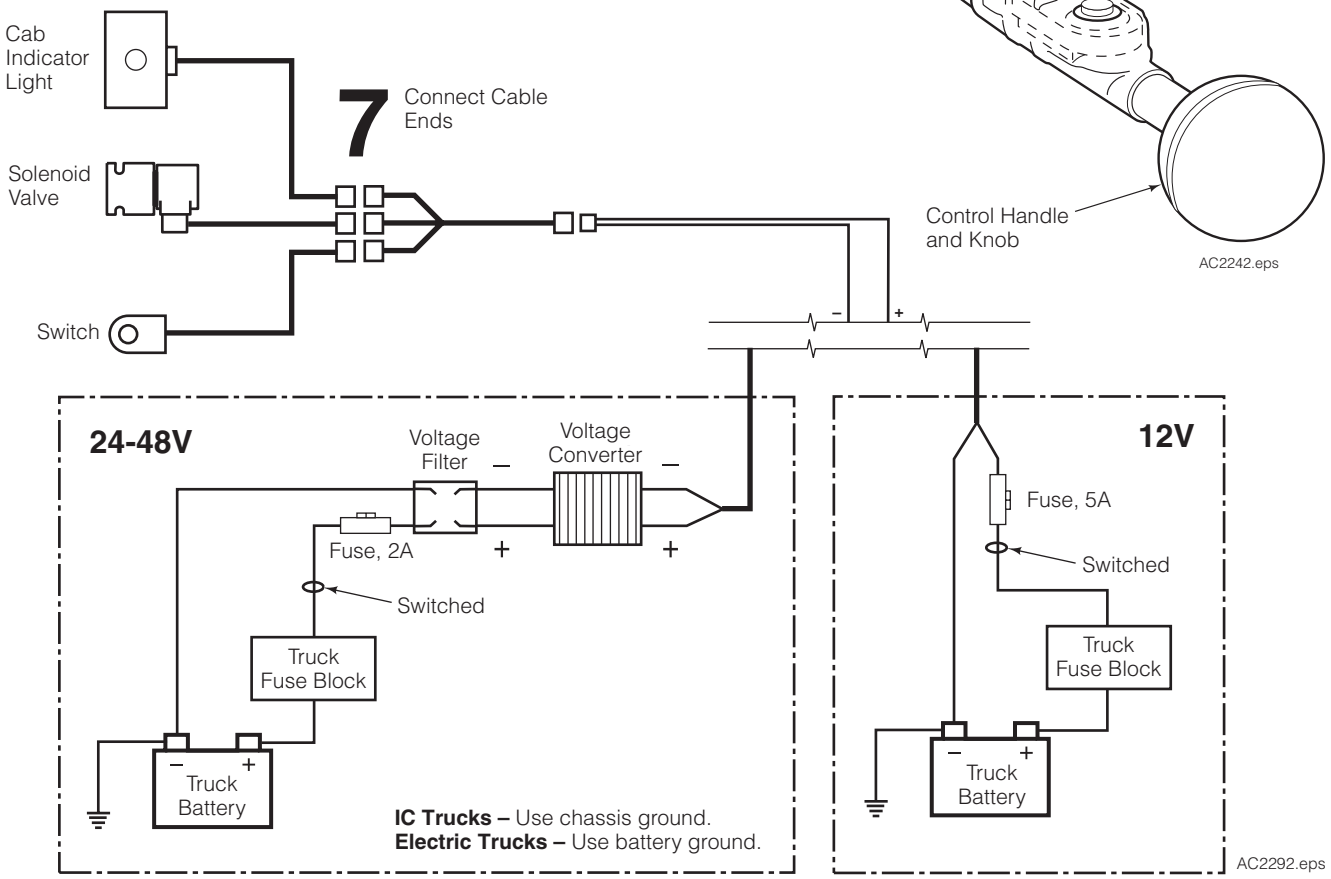
NOTE: When installing on electric trucks, voltage filter 6061953 must be installed. Failure to install voltage filter can cause damage to electrical components.

WARNING: To reduce risk of fire, replace only with the same type and ratings of fuse. The fused power cable is polarity sensitive. The positive wire must be connected to a positive power source.

8 Connect battery cable(s) to their proper terminal(s).



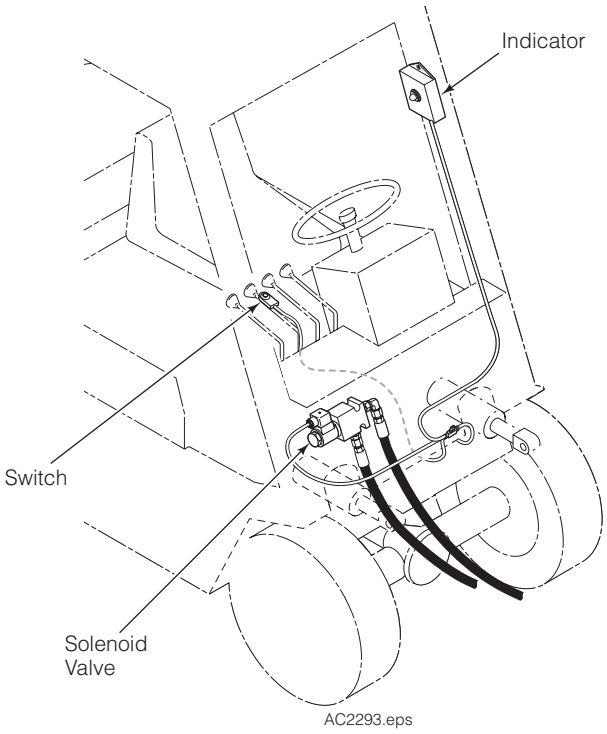




Test Procedure

Perform by Qualified Personnel only.

1. Test the installation before putting the truck in service. When the truck key is turned ON, the cab indicator green light should be off.
2. Press the button and observe that the cab indicator green light turns on.
3. With button released, attempt to rotate the attachment CW and CCW. The attachment should not rotate. Then, with button pressed, verify that the attachment will rotate in CW and CCW directions.



Operation

WARNING: All operators must read this section.

Before operation, inspect the switch, indicator, valve, wiring and test operation daily.

Operators must have a thorough knowledge and understanding of the safe operation of the attachment and Rotator Shut-Off system.

The Rotator Shut-Off kit helps prevent accidental rotation and requires a definitive action by the driver. The attachment is allowed to rotate when the switch is activated and the green light on.

- Press the switch button, then operate the truck ROTATE control lever to rotate the load. When the green light is on, the attachment will rotate normally.
- If the attachment will not rotate when the button is pressed, set the load down, turn off the truck key and troubleshoot the system. Follow *Test Procedure* before returning to service.

  CAUTION: The system does not prevent accidental release or movement of a load. The cab indicator green light does not indicate that the load has been lowered to its optimal position or that it is OK to release a load.

WARNING: Residual risk exists to personnel in the work area, operate only in compliance to facility, state and federal standards.

For this accessory:

a) The Weighted Emission Sound Pressure Level (LpA) does not exceed 70 dB(A).

b) The Value of Whole Body Vibration does not exceed 0,5 m/s^2.

c) The Value of Hand-Arm Vibration does not exceed 2,5 m/s^2.

Troubleshooting

Service only after reading this manual and by Qualified Personnel only.

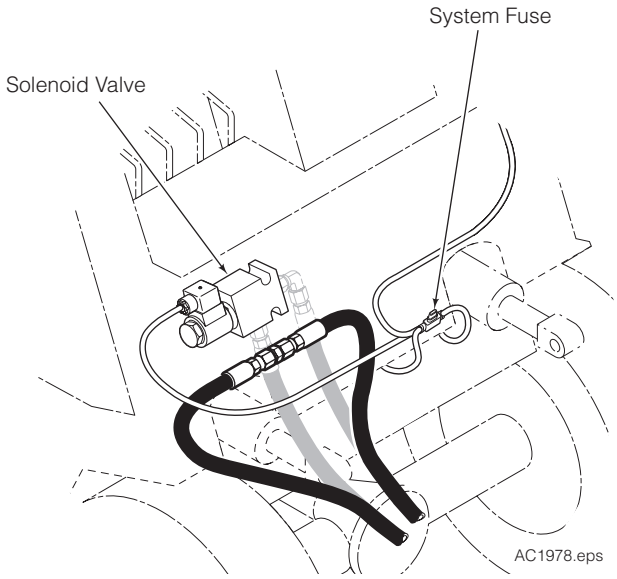
- Check all system fuses.
- Verify 12VDC at switch connector.
- Check switch function (N/O switch).
- Check 12VDC at solenoid when switch is pressed.
- Check for 12VDC at Indicator Light when switch is pressed.

Temporarily Disabling System

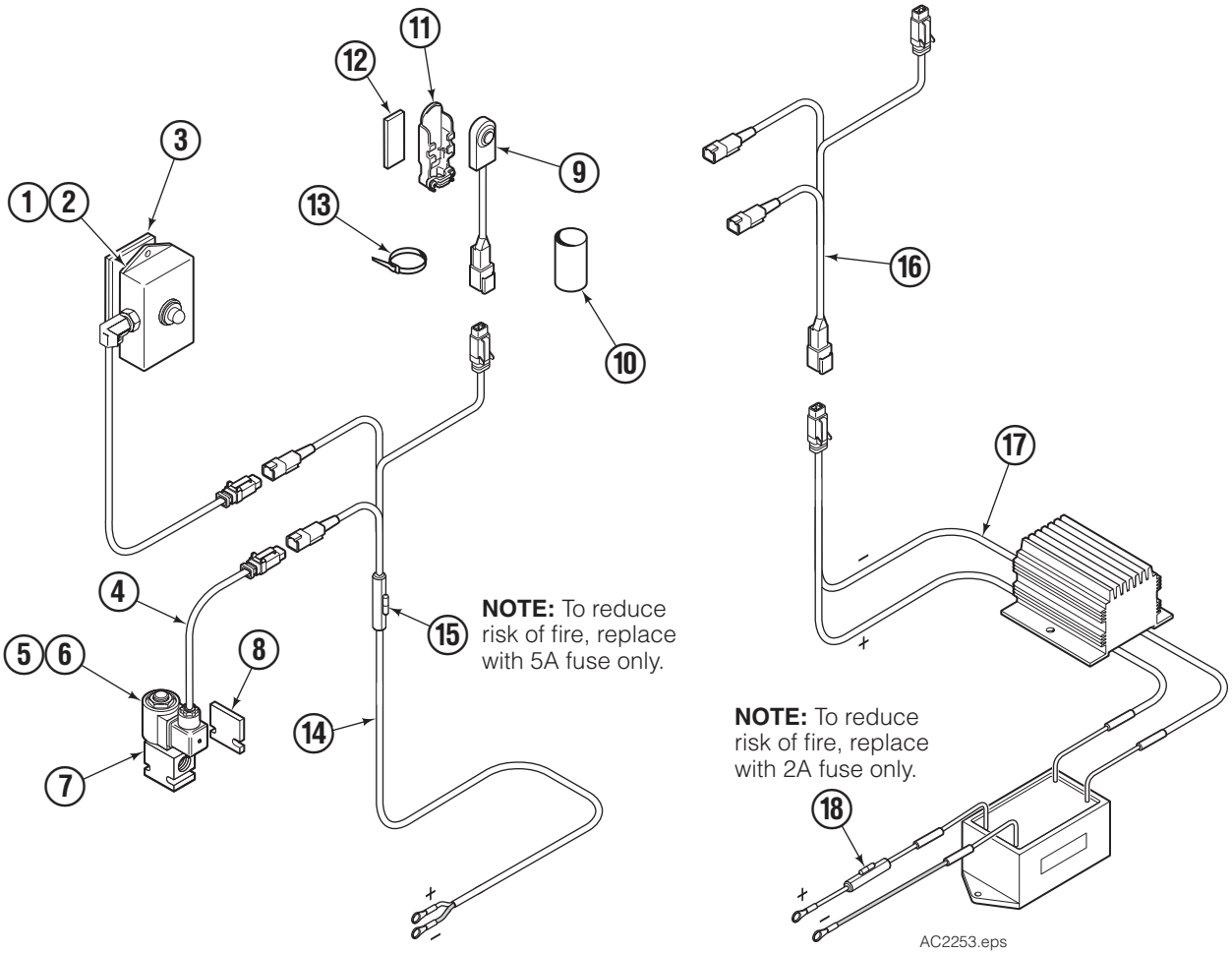
The Rotator Shut-Off can be disabled by performing the following steps:

- Tag equipment as not operational. Do not operate when system is disabled or known to malfunction.
- Disconnect the two hose ends to the normally-closed solenoid valve and connect them together with a union.
- Remove the system power fuse in the cable harness to disable indicator light.

The truck and attachment will now operate without the Rotator Shut-Off feature. To enable, reverse the above procedure.



Rotator Shut-Off



REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		6820937	12V Rotator Shut-Off ●	9	1	6806863	Switch Kit ◆
		6823703	24V-48V Rotator Shut-Off ■	10	1	6822532	Shrink Tubing
1	1	6823809	Indicator	11	1	6821504	Switch Holder
2	1	6004132	Lamp, Green	12	2	6014987	Adhesive Tape
3	2	6029665	Velcro	13	3	6822796	Cable Tie
4	1	6008301	Solenoid Wire Harness	14	1	6806865	Power Harness, 12V
5	1	6813173	Coil, 12V	15	1	6806708	Fuse, 5 Amp
6	1	6040279	Solenoid Cartridge	16	1	6816503	Power Harness, 24-48V
7	1	6820929	Solenoid Valve Assembly ▲	17	1	6816341	Converter Kit
8	1	6048803	Spacer	18	1	6806701	Fuse, 2 Amp

● Items 1–15.
■ Items 1–13, and 16–18.
◆ Includes items 10-13.
▲ Includes items 5 & 6.

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